

ABSTRACT

The present invention provides a moulding composition, which includes:
a plurality of bead polymers dispersed in at least one matrix polymer;
wherein the bead polymers:

- 5 have an average particle size of 5 to 40 μm , and
- have a refractive index n_D at 20°C which is different from a refractive index n_D

at 20°C of said matrix polymer;

and wherein the bead polymers are prepared by a process, which includes:
contacting:

 at least one polymerizable mix which includes at least 50% by weight of at
least one (meth)acrylate monomer,

 at least one aluminum compound, and
 an aqueous phase,

to prepare a mixture;

 dispersing the mixture at a shear rate $\geq 10^3 \text{ s}^{-1}$ to form a dispersion, wherein the
dispersion is stabilized by the aluminum compound; and

 polymerizing to produce the bead polymers having an average particle size of 5 to
40 μm .